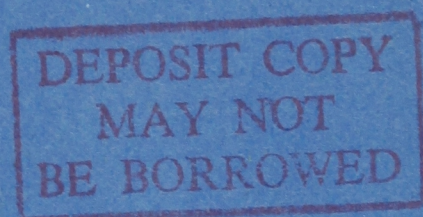


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# REPORT

ON THE



# VITAL STATISTICS

OF

SYDNEY AND SUBURBS,

FOR THE YEAR

1887.



BY

T. A. COGHLAN, A.M. INST. C.E.,  
Government Statistician.

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# VITAL STATISTICS

OF THE

## CITY AND SUBURBS OF SYDNEY,

### For the Year 1887.

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The Government Statistician to The Honorable the Colonial Secretary.

Sir,

Sydney, 16 February, 1888.

I have the honor to submit a report on the Vital Statistics of the City and Suburbs of Sydney for the year 1887. The figures necessary for the complete understanding of the text are given as an appendix, while further tables, showing in detail the causes of all deaths and the ages of persons dying during the year, have been reserved for the general report upon the whole Colony, which is now in course of preparation. Sufficient information may, however, be found in the following pages to give a just idea of the vital statistics of the metropolitan district; and it will be found that however much Sydney may fall short of being a perfect city as regards sanitation, its rate of mortality for the year 1887 will compare advantageously with that of any other city of equal or greater population.

### POPULATION.

The estimated population of the City and Suburbs of Sydney at the close of 1887 was 348,695. Of these, 181,140 were males and 167,555 females, showing a difference in favour of the males of 13,585. The number at the close of the previous year was 332,709; the increase during 1887 was therefore 15,986, or at the rate of 4·8 per cent. The average annual increase since 1870 has been at the rate of 5·82 per cent., the estimated population at the termination of each year being as follows:—

#### *Population of Sydney, including Suburbs.*

1870	...	...	134,578	1879	...	...	208,272
1871	...	...	140,621	1880	...	...	220,171
1872	...	...	145,765	1881	...	...	235,292
1873	...	...	151,446	1882	...	...	248,231
1874	...	...	158,178	1883	...	...	268,797
1875	...	...	164,075	1884	...	...	289,701
1876	...	...	170,514	1885	...	...	313,652
1877	...	...	182,325	1886	...	...	332,709
1878	...	...	192,946	1887	...	...	348,695



The total population of the Colony at the end of the year 1887 was 1,042,919, and it would therefore appear that 33·43 per cent., or more than a third, of the inhabitants dwell within the metropolitan boundaries, a proportion which cannot but be looked upon as extraordinary. The tendency of population to accumulate in large towns is one of the most notable phenomena of modern civilization, and in no part of the world is this tendency more strongly marked than in this and the other Colonies of Australasia. At the close of 1887 the percentage of the inhabitants of the Colony residing within the metropolitan area showed a considerable increase over previous years, as will be seen below.

*Percentage of Population of New South Wales living in Sydney and Suburbs.*

1861	...	...	...	...	...	...	...	26·70
1871	...	...	...	...	...	...	...	26·73
1881	...	...	...	...	...	...	...	29·40
1887	...	...	...	...	...	...	...	33·43

The aggregation of population in the chief city of the Colony can hardly be explained on the same grounds as govern the growth of the large European cities at the expense of the country districts; there the increase in the urban population marks an advance in the lot of the ruder population, who naturally drift to the place where work is better paid, and employment more regular. Nor can it be explained as in America, by the fact that a large proportion of the arrivals from abroad remain in the chief cities. In this Colony the country population has probably larger opportunities of material advancement than the city population, and, although the arrivals from other lands do, to a considerable extent, remain in and around Sydney, their number, compared with the total population, has gradually fallen since 1861, while the absolute increase of non-Australian-born inhabitants of Sydney has only amounted to 26,650 persons in 20 years.

*Proportion of Australian-born persons and others residing in the Metropolitan District.*

						Australian-born per cent.	British and others per cent.
1861	...	...	...	...	...	44·73	55·27
1871	...	...	...	...	...	57·29	42·71
1881	...	...	...	...	...	63·04	36·96

Whatever may be the cause of the very large increase in the metropolitan population, the matter has an immediate bearing upon the question of public health. An increase in the density of population over a confined area is usually accompanied by an increase in the amount of sickness, and in the average rate of mortality. Such increase of sickness and mortality cannot be checked unless sanitary measures keep pace with or exceed the growth of population; and the increase in suburban mortality is largely due to the want of sanitary precaution in most of the suburbs, while the very marked improvement in the health of the city can be ascribed in no slight degree to the abundant supply of water now obtainable, and the extension of the sewerage throughout the greater portion of



the city area. Thus, comparing the second with the first half of the period which has elapsed since 1870, the city rate has improved about 4·5 per thousand, representing a saving of 600 lives during each year, while the suburban rate has advanced nearly 4 per thousand, representing a loss of 800 lives during each year, as estimated on the population of 1887.

The completion of the water supply works, by which a vast body of water is now available for all parts of the metropolitan district, may be considered one step towards a perfect sanitary system. But without sewerage there are drawbacks, even to an abundant supply of water. The waste from the houses must find an outlet, and the nearest and most expeditious means of disposing of the water will be to allow it to run down the ordinary open channels which border the streets, and so matter which would remain innocuous in a dry state becomes, through the combined action of water and heat, a fertile source of disease and death.

London may be taken as a most conspicuous example of the improvement effected by a complete system of sewerage joined to an efficient water supply. Previous to 1871, when the main intercepting scheme was practically completed and came into operation, the death-rate averaged 24·4 per thousand, reaching 30·0 per thousand in some years. Since the year named the maximum rate has not touched the mean of former years, while the mean has fallen nearly 3·0 per thousand, representing an annual saving of 12,000 lives, and a proportionate increase in the length of life to the living.

The population of the suburbs of Sydney tends to increase much more rapidly than that of the city. This is what can only naturally be expected. The limits of the expansion of the city are not great, and will soon be reached, whereas the suburbs have practically unlimited scope for further extension. The result is seen in the enormous growth of the suburbs, as compared with the city proper. Thus, in 1870 the populations of the two districts were, in the city, 75,493, and in the suburbs, 59,085; in 1877 the population of each was practically equal, while ten years later, at the close of 1887, the respective populations were—city, 132,846; suburbs, 215,849,—38·10 per cent. of the metropolitan population dwelling in the former, while 61·90 per cent. found a home in the latter. Taking each year since 1870, the populations of the city and suburbs were :—

*Population of the City and Suburbs of Sydney.*

						City.	Suburbs.
1870	...	...	...	...	...	75,493	59,085
1871	...	...	...	...	...	77,680	63,941
1872	...	...	...	...	...	79,455	66,310
1873	...	...	...	...	...	81,442	69,964
1874	...	...	...	...	...	83,631	74,547
1875	...	...	...	...	...	85,267	78,808
1876	...	...	...	...	...	87,261	83,253
1877	...	...	...	...	...	91,008	91,317
1878	...	...	...	...	...	94,228	98,718
1879	...	...	...	...	...	98,824	109,448



## VITAL STATISTICS OF THE

					City.	Suburbs.
1880	...	...	...	...	102,161	118,010
1881	...	...	...	...	106,578	128,714
1882	...	...	...	...	110,112	138,119
1883	...	...	...	...	115,847	152,950
1884	...	...	...	...	121,441	167,760
1885	...	...	...	...	127,859	185,793
1886	...	...	...	...	132,846	199,863
1887	...	...	...	...	132,846	215,849

There does not appear to have been any increase in the number of persons living within the city boundaries during the year 1887. This is to be accounted for in a great measure by the fact that as years roll on an increased area of the city becomes devoted to business, especially in Bourke, Brisbane, and Macquarie Wards, and in consequence a large number of families are forced to move out into the suburbs. The numerous land sales that have taken place during the last few years have also had a tendency to draw people from the city, and increase the growth of the suburbs.

The estimated population of the City and Suburbs of Sydney must be looked upon as only approximate, as no yearly census is taken by which the numbers can be accurately fixed. The population determined by the census of 1881 has been increased by the excess of births over deaths, and by the estimated number of persons arriving in the Colony who remained in the Metropolitan District. The result thus obtained is compared with the approximation derived from the number of electors on the roll, and in the case of the various suburban districts, with the rough enumeration of the inhabited houses in each municipality. It is possible that the suburban population has been somewhat under-stated, but the amount of such cannot materially affect any of the averages given in this report. As regards the city, the population has been taken as stationary during 1887, and it is probable the maximum limit of population has nearly been reached. Everywhere the tendency is visible to displace dwellings by warehouses, and a comparison of the numbers on the electoral roll during the past three years, would warrant the supposition that this is attended by a corresponding displacement of population. The number of electors on the rolls of the three city electorates for 1885-6-7 was

					1885.	1886.	1887.
East Sydney	...	...	...	...	10,240	10,888	10,889
South „	...	...	...	...	8,729	9,620	9,730
West „	...	...	...	...	10,439	11,523	11,442
Total	...	...	...	...	29,408	32,031	32,061

The increase from 1886 to 1887 was only 30 electors, and it would appear that during 1887 the city has received not only no accession of population from outside its boundaries, but the natural increase by the excess of births over deaths has also been lost. This view of the tendency of the city population is confirmed by the decline in the number of births registered, which has been observable for some years.



BIRTHS.

The number of births registered in the metropolis during the year 1887 was 13,415, consisting of 6,694 males and 6,721 females, being 286 in excess of the births for the previous year. The figures for the city and suburbs, taken separately, were as follows:—

<i>Births.</i>						Males.	Females.	Total.
City	...	...	...	...	...	1,881	1,896	3,777
Suburbs	...	...	...	...	...	4,813	4,825	9,638
						<hr/> 6,694	<hr/> 6,721	<hr/> 13,415

On comparing these numbers with those of 1886 it will be found that while the suburbs show an increase of 343, the city total, on the other hand, is less by 57 than it was for the year before. In fact the city births show a slight decrease in each of the last three years, whereas the yearly increase in the suburbs has been most marked.

The birth-rate per 1,000 of the estimated population at the middle of the year was as follows:—

Metropolis	...	...	...	...	...	...	39·37
Sydney	...	...	...	...	...	...	28·43
Suburbs	...	...	...	...	...	...	46·37

Taking the city and suburbs as a whole, the birth-rate (39·37) was nearly the same as the average rate for the previous ten years, viz., 39·66; whereas the birth-rate of each, taken separately (city, 28·43, and suburbs, 46·37), discloses considerable disparity when compared with the average rates for the same period, viz.:—City, 35·05; suburbs, 43·10.

Although there were less births in the city than for some years past, there were considerably less deaths, so that the excess of births over deaths was greater than ever before. In the suburbs also the difference between the births and deaths was most marked, for while the former reached a higher total than for any previous year, the latter numbered less than in 1885 or 1886. The excess of births over deaths during 1887 was—City, 1,835; suburbs, 6,022; total metropolis, 7,857.

There were 109 cases of twins during the year, viz.:—25 in the city, and 84 in the suburbs.

<i>Twins.</i>						No. of cases.	Males.	Females.	Total.
City	...	...	...	...	...	25	27	23	50
Suburbs	...	...	...	...	...	84	75	92	167*
						<hr/> 109	<hr/> 102	<hr/> 115	<hr/> 217

\* 1 was stillborn.



The illegitimate births registered in the city and suburbs have been steadily increasing for many years, not only in number, but also in proportion to the total births. The year 1887 was, however, an exception to the general rule, and, compared with 1886, shows a decrease of 32 in the number of such births. Out of a total of 13,415 births for the year, 873, or 6·51 per cent., were illegitimate. By far the larger number of these took place in the city, as may be seen from the record given below.

*Illegitimate Births.*

							City.	Suburbs.	Total.
1871	...	...	...	...	...	...	206	61	267
1872	...	...	...	...	...	...	182	66	248
1873	...	...	...	...	...	...	199	86	285
1874	...	...	...	...	...	...	241	88	329
1875	...	...	...	...	...	...	260	85	345
1876	...	...	...	...	...	...	306	88	394
1877	...	...	...	...	...	...	305	77	382
1878	...	...	...	...	...	...	317	108	425
1879	...	...	...	...	...	...	389	117	506
1880	...	...	...	...	...	...	411	150	561
1881	...	...	...	...	...	...	425	167	592
1882	...	...	...	...	...	...	440	161	601
1883	...	...	...	...	...	...	439	237	676
1884	...	...	...	...	...	...	527	259	786
1885	...	...	...	...	...	...	529	316	845
1886	...	...	...	...	...	...	533	372	905
1887	...	...	...	...	...	...	496	377	873

A large proportion of the illegitimate births of the city occur in the Benevolent Asylum, and during the past year, out of 247 births in that institution, only 54 were legitimate. In the table giving the percentage of children born out of wedlock, which will be found in the Appendix, it would appear that the suburban rate is much lighter than that of the city. A comparison, however, between the two portions of the Metropolitan District is manifestly unfair towards the city, inasmuch as it is quite feasible to suppose that no small proportion of the cases which are received in the lying-in hospital at the Benevolent Asylum, are of women who may ordinarily reside out of Sydney. In fact, looking at the total cases independently of those in the Asylum, there is reason to believe that many expectant mothers living in the suburbs, and also in the country districts, temporarily leave their homes and repair to the city, not so much for the sake of the attendance there available, as with a view of greater secrecy.



## DEATHS.

The deaths registered in Sydney and Suburbs during the year 1887 numbered 5,558, of which 3,072 were males and 2,486 females, the excess of the former over the latter being 586. Adding this to 27, the number by which the female exceeded the male births, we find that there is a surplus on the year of 613 in favour of the females.

The number of deaths in the city was 1,942, viz., 1,100 of males and 842 of females. This is 282 less than in 1886, and 431 below the average of the previous ten years. On reference to the figures for a series of years which are shown in the appendix, it will be found that there have not been so few deaths within the city in any year since 1873.

The number in the suburbs amounted to a total of 3,616, viz., 1,972 of males and 1,644 of females, being 429 less than in 1886, and 1,076 above the average of the decade. Keeping in view, however, the rapid growth of the suburbs, the death-rate per 1,000 of the estimated population was higher from 1882 to 1886 than in the year under consideration.

The following is the death-rate per 1,000 of the population at the middle of the year 1887:—

Metropolis	...	...	...	...	...	...	16·31
City	...	...	...	...	...	...	14·62
Suburbs	...	...	...	...	...	...	17·40

By comparison it will be found that both the city and suburban rates fall short of the average of the previous ten years, the former by 7·62, and the latter by 1·19. The average rate for the metropolis during the ten years 1877–86 was 20·32, or 4·01 higher than that of last year.

The general healthiness of the year is evidenced by the decline in the number of deaths in both city and suburbs, especially in the former, for, as before stated, the death-roll has not been so small for fourteen years. The decline in the suburban rate is also satisfactory, although not so striking. The foregoing figures show that the mortality in the suburbs was 2·78 per 1,000 of population more than in the city—a state of things considerably at variance with the accepted notions as to the salubrity of the suburban districts.

The suburbs of Sydney have received from nature all that is needed to form the most healthy resorts of man. It will be seen from subsequent figures that some districts still retain their original healthiness, but others give every evidence of the neglect of the ordinary precautions which are imperatively demanded when human beings are thickly congregated. Taking the suburbs as a whole, it is satisfactory to note the decline of 3·64 per 1,000 in the death-rate



from that of the previous year, representing, as it does, a saving of 744 lives ; but even the reduced rate for 1887 is higher than the healthy environment of these districts would warrant.

In the suburbs the death-rate was highest in the east and west central districts—Redfern, Waterloo, Newtown, Macdonaldtown, &c. North Shore appears most favourably, even more so than the city itself. It must be borne in mind, however, that in the districts first mentioned the birth-rate was remarkably high, and, as a natural consequence, the mortality of infants helped largely to swell the total deaths. Reference to the following table will show at a glance how much higher the birth-rate was in each of the suburbs than in Sydney. For purposes of comparison, the municipalities have been grouped in districts, and the population and rates of births and deaths have been given for these districts as a whole. It would have been better, if such were possible, to have dealt with each municipality separately. The population of every municipality is, however, not accurately known, and an error of a few hundred in the estimated population, while it would not affect to any appreciable degree the rates for the whole district, would materially throw out the rate of any individual suburb in which it occurred.

	Birth-rate.	Death-rate per 1,000 of population (excluding all deaths in Public Institutions).	Excess of Birth-rate.
City of Sydney... ..	28·43	11·51	16·92
Balmain, Leichhardt, and Glebe ...	49·51	14·73	34·78
Newtown, St. Peters, Camperdown, and Macdonaldtown ... ..	50·65	17·30	33·35
Redfern, Darlington, and Waterloo...	45·50	17·95	27·55
Paddington, Randwick, Waverley, and Woollahra... ..	41·76	13·63	28·13
Ashfield, Burwood, Canterbury, Five Dock, Kogarah, Marrickville, Petersham, and West Botany ...	49·11	15·11	34·00
St. Leonards and Manly ... ..	37·45	10·16	27·29

The greatest number of deaths in the city (891, or 45·88 per cent. of the total) was from diseases of the local class. Inflammation of the brain contributed 38 fatal cases, apoplexy, 53 ; convulsions, 91 ; heart disease, 136 ; bronchitis, 78 ; pneumonia, 72 ; and enteritis, 59. Next follows the constitutional class, 19·88 per cent., in which the most prominent were,—phthisis, 221 ; tabes mesenterica, 43 ; and cancer, 52. The proportion of specific febrile, or zymotic diseases was only 12·20 per cent.,—measles, 11 ; scarlet fever, 11 ; whooping-cough, 16 ; diphtheria, 15 ; typhoid fever, 46 ; diarrhœa, 83 ; syphilis, 23, &c. These figures compare very favourably with the 1886 record ; the falling off in the numbers of deaths from scarlet fever, typhoid fever, and diarrhœa being the most noticeable. Of deaths from developmental diseases (5·51 per cent.), 61 were from premature birth, 22 from malformations, and 24 from old age.



In the suburbs also local diseases claim the largest number of victims, 1,693, or 46·83 per cent. of the aggregate, having succumbed to diseases in this class; the primary were,—inflammation of the brain, 99; apoplexy, 78; convulsions, 159; heart disease, 207; bronchitis, 132; pneumonia, 124, and enteritis, 219. The proportion of deaths from specific febrile, or zymotic diseases was 17·14 per cent., and included 13 from small-pox, 33 from measles, 32 from scarlet fever, 26 from whooping-cough, 49 from diphtheria, 152 from typhoid, enteric fever, 245 from diarrhœa, &c. Of constitutional diseases (15·82 per cent.), the fatal cases were,—289 from phthisis, 79 from tabes mesenterica, 87 from cancer, 53 from hydrocephalus, &c. Developmental diseases give 6·03 per cent.,—premature birth, 107; malformations, 24; and old age, 87.

The 13 deaths from small-pox mentioned above took place at the Quarantine Station, North Head; three of the victims were under 5 years of age, and all were from the passengers and crew of the steamer "Preussen," which was quarantined here some weeks.

Comparison of the suburban death-rolls for 1886 and 1887 shows that there were fewer deaths from each class of disease in the latter year than in the former. The greatest difference is to be found in the zymotic class, and although in 1887 the fatal cases of diphtheria, scarlet fever, typhoid fever, and diarrhœa were somewhat numerous, the deaths from each of these diseases, with the exception of the first named, fell short of the numbers registered in 1886.

It may be accepted as a general law that deaths from zymotic or febrile diseases are preventable; and such diseases, with a perfect sanitary system, would scarcely exist. From the ordinary miasmatic diseases, to which children are mostly subject, deaths in 1887 have been fewer than during each of the three previous years. Measles were, however, epidemic, but not to a large extent, during the last quarter of the year, and diphtheria was somewhat prevalent throughout the year, as was also scarlet fever. Typhoid fever and diarrhœa were very prevalent, especially during the warm months. The greater number of these preventable deaths occurred in the suburbs; and as the natural advantages for maintaining health are clearly greater in the suburbs than in the city, the greater loss of life in the former from zymotic or fever diseases may be due to the absence of efficient sewerage and water supply, similar to that which the city possesses.

Children of tender years have for the most part fallen victims to zymotic diseases, though the deaths of adults and others over 5 years of age have been also numerous. During 1887 the deaths from diseases of this class amounted to 857. Of these, diarrhœa claimed the largest number of victims—83 died in the city, of whom 75 were under and 8 above 5 years of age; while 245—of whom 230 were under and 15 above 5 years of age—died in the suburbs; the total deaths numbering 328. The deaths from typhoid were not as frequent during 1887 as in the previous year, still they were sufficiently numerous to form a grave

cause of alarm. The deaths numbered 198, or 101 less than in the previous year. Of the number dying from this cause, 46 were residents of the city and 152 of the suburbs. The loss of life occasioned by typhoid during the last thirteen years has amounted to 2,077, as will be seen from the following figures:—

*Deaths from Typhoid, Enteric Fever.*

				City.	Suburbs.	Total.
1875	...	...	...	75	41	116
1876	...	...	...	77	51	128
1877	...	...	...	61	39	100
1878	...	...	...	103	67	170
1879	...	...	...	77	38	115
1880	...	...	...	54	35	89
1881	...	...	...	58	35	93
1882	...	...	...	96	71	167
1883	...	...	...	77	93	170
1884	...	...	...	100	109	209
1885	...	...	...	93	130	223
1886	...	...	...	69	230	299
1887	...	...	...	46	152	198
				986	1,091	2,077

There were 66 deaths of child-bearing women during the year, viz., 28 in the city and 38 in the suburbs, or 1 death of a mother to every 203 births registered.

The city presents a slightly heavier record of violent deaths than the suburbs, with a total of 168, as against 146. The city cases consisted of 104 accidents (fractures and contusions 65, tetanus 1, burns 8, scalds 2, sunstroke 3, poison 3, drowning 15, suffocation 4, and otherwise 3); homicide, 12 (murder 10, and manslaughter 2); suicide, 19 (by shooting 3, by cutting throat 1, by poison 10, by drowning 1, and by hanging 4); execution—judicial hanging, 4; and violent deaths, not classed, 29 (found drowned 22, and other violent deaths, open verdicts, 7). In the suburbs there were 105 accidents (fractures, &c., 42, tetanus 4, burns 10, scalds 5, sunstroke 1, poison 7, bite of snake 1, drowning 24, suffocation 9, and otherwise 2); homicide—murder, 6; suicide, 29 (by shooting 3, by cuts 6, by poison 8, by drowning 2, and by hanging 10); and violent deaths not classed—found drowned, 6.

The total deaths under and over 5 years respectively amounted to 2,624 and 2,934, or—

					Under 5 years.	Over 5 years.	Total.
City	...	...	...	...	770	1,172	1,942
Suburbs	...	...	...	...	1,854	1,762	3,616
					2,624	2,934	5,558

In the city, therefore, the number of deaths of children under 5 years of age was 39·65 per cent. of the total, or considerably less than half; whereas in the suburbs the infantile mortality was 51·27 per cent., or more than half the total deaths. The superiority of the city over the suburbs is, however, not so great as would appear from the bare statement just given. Two important



elements must be taken into consideration besides the actual number of deaths. These are the high birth-rate of the suburbs compared with the city, and the larger proportion of very young children who reside therein. When allowance is made on this score the comparison for 1887, though still adverse to the suburbs, is not so unfavourable as would at first sight appear. For many years past the rate at which children of tender years have been stricken down in the suburbs has formed a pathetic commentary on the absence of sanitary precautions; but 1887, though still manifesting a rate far higher than is natural, was yet better than any year since 1873. The following table shows the deaths of children under 5 years compared with the total living during each of the past five years, from which the satisfactory rate for 1887, in comparison with the other years, will be at once manifest.

*Yearly death-rate per 1,000 children under 5 years of age.*

						City.	Suburbs.	Metropolis.
1883	...	...	...	...	...	65·32	73·48	70·05
1884	...	...	...	...	...	71·49	82·22	78·93
1885	...	...	...	...	...	69·82	81·50	77·20
1886	...	...	...	...	...	60·91	74·92	68·53
1887	...	...	...	...	...	50·50	57·86	55·49
Mean of last 17 years	...	...	...	...	...	72·20	68·60	70·94

There were 1,892 deaths of children under the age of 1 year, viz., 573 in the city, and 1,319 in the suburbs. The latter number is much below the figures for 1885 and 1886, and the city record is the lowest for ten years past. Comparing the numbers, however, with the total births, the suburbs appear the more favourably of the two, the deaths of children under 1 year of age per 1,000 births being 151·7 in the city, and 136·8 in the suburbs. The city rate is not only far below the average of the last seventeen years (178·1), but is less than in any of those years. The suburban rate also falls short of the average (154·6), and was exceeded in every other year since 1873.

							City.	Suburbs.
Births	...	...	...	...	...	...	3,777	9,638
Deaths under 1 year	...	...	...	...	...	..	573	1,319

The number of persons of the age of 70 years and upwards who died during the year was 345, viz., 119 in Sydney, and 226 in the suburbs. The sexes were almost evenly divided, there being 175 deaths of males, and 170 of females. The following table gives the numbers at the different periods of life:—

			70 to 75 years.	75 to 80 years.	80 to 85 years.	85 to 90 years.	90 to 95 years.	95 to 100 years.	Totals.
Males.—									
City of Sydney	...	...	33	19	12	1	1	.....	66
Suburbs of Sydney	...	...	52	37	11	7	1	1	109
Total males	...	...	85	56	23	8	2	1	175
Females.—									
City of Sydney	...	...	13	20	12	5	3	.....	53
Suburbs of Sydney	...	...	37	34	26	17	3	.....	117
Total females	...	...	50	54	38	22	6	.....	170
Both sexes	...	...	135	110	61	30	8	1	345

Attention has already been drawn to the fact that the mortality from some diseases was heavier in the summer than in the winter months. The following are the numbers of deaths registered during each quarter of the year :—

1887.				City.	Suburbs.	Metropolis.
March Quarter ...	...	...	...	550	1,054	1,604
June „ ...	...	...	...	479	858	1,337
September „ ...	...	...	...	394	648	1,042
December „ ...	...	...	...	519	1,056	1,575
				1,942	3,616	5,558

In the city the deaths in public institutions show a considerable falling off, while the number in the suburbs is slightly in advance of the 1886 figures. The following are the numbers of deaths, and the institutions at which they took place:—In Sydney Hospital, 251 ; St. Vincent's Hospital, 55 ; Sydney Gaol, 16 ; Lunatic Reception House, 5 ; and Benevolent Asylum, 86. Total for the city, 413. At Callan Park Asylum, Leichhardt, 55 ; Children's Hospital, Glebe, 24 ; Prince Alfred Hospital, Camperdown, 203 ; Little Bay Hospital, Waterloo, 150 ; Infants' Home, Ashfield, 33 ; and Quarantine Station, North Head, 13. Total for the suburbs, 478.

#### RAINFALL.

The total rainfall last year, as recorded at the Sydney Observatory, was slightly over 60 inches, which is  $10\frac{1}{2}$  inches above the average of the preceding twenty-eight years. The rainfall for the five years prior to 1887 was as follows :—1882,  $42\frac{1}{4}$  inches ; 1883, 47 inches ; 1884, 44 inches ; 1885, 40 inches ; and 1886,  $39\frac{1}{2}$  inches. There was a greater amount of rain during 1887 than in any year since 1879. Viewed in another light, and compared with the rainfall of some years past, it was more distributed over the different months of the year, and was therefore more beneficial to health and vegetation. The year 1885, with 40 inches, was very dry, for  $23\frac{3}{4}$  inches fell during two months (June and July), and only  $16\frac{1}{4}$  during the other ten.

#### MARRIAGES.

The number of marriages celebrated in the metropolis during the year 1887 was 3,513, which gives a ratio of 10·31 per 1,000 of the estimated population. This total is less by 256 than the number registered in 1886. Marriages in the city numbered 1,931, or at the rate of 14·53 to estimated population. The number in the suburbs amounted to 1,582, which gives a rate of 7·61 per 1,000. The figures for 1886 were,—in the city, 2,164 ; and in the suburbs, 1,605—showing a decrease in 1887 of 233 and 23 respectively. The average rates for the previous ten years were,—city, 16·50 ; and suburbs, 7·59—so that the suburban rate is about equal to the average, while the city rate shows a decline of nearly 2 per 1,000.



The above ratios are of marriages to estimated population ; the ratios of persons married would of course be double in each case. It will be seen that the city rate is far in advance of the suburban, a state of things which has always existed. As it is a generally accepted fact that an increase in the marriage rate is a sign of prosperity to a country, and comparative cheapness of living, the decrease in 1887 may have been due to the commercial depression which undoubtedly prevailed. The numbers of marriages during the different quarters of the year were as follows :—

					City.	Suburbs.	Total.
March Quarter...	...	...	...	...	513	379	892
June „	...	...	...	...	496	410	906
Sept. „	...	...	...	...	457	397	854
Dec. „	...	...	...	...	465	396	861
					1,931	1,582	3,513

From the tables which distinguish the number of marriages celebrated by the various denominations and by the registrars, it will be found that the Church of England stands first with 1,462, then follow: Roman Catholic, 509; Congregational, 487; Presbyterian, 349; Wesleyan, 238; Primitive Methodist, 70; Baptist, 57; Hebrew, 26; other denominations, 32; and Registrars, 283. Of the total number, therefore, the Church of England solemnized 41·62 per cent.; Roman Catholic, 14·49; Congregational, 13·86; Presbyterian, 9·93; Wesleyan, 6·77; Primitive Methodist, 1·99; Baptist, 1·62; Hebrew, 0·74; and Registrars, 8·05.

Of the bridegrooms, 50, or 1·42 per cent., and of the brides, 99, or 2·82 per cent., were unable to write their names in the register; this gives a mean of 2·12 per cent. The proportion of persons signing the marriage register with marks has steadily declined for many years, having fallen from 13·50 per cent. in 1871 to 2·12 per cent. during the past year. The progress thus exhibited is very great, and shows that the residuum of population unreached by the educational system of the Colony is rapidly disappearing.

				MARKS.			
				No. of Marriages.	Males.	Females.	Total.
City	...	...	...	1,931	40	70	110
Suburbs	...	...	...	1,582	10	29	39
				<hr/>	<hr/>	<hr/>	<hr/>
				3,513	50	99	149

The marriage registers show that out of 7,026 persons married during the year 730 were minors, viz., 65 males and 665 females, or 10·39 per cent. of the total. The percentage of minors in the city was 9·58, and in the suburbs 11·38.

#### *Minors.*

				Males.	Females	Total
City	...	...	...	37	333	370
Suburbs	...	...	...	28	332	360
				65	665	730

The number of minors married who were unable to write was 23.

*Minors signing by Marks.*

				Males.	Females.	Total.
City	...	...	...	4	11	15
Suburbs	...	...	...	1	7	8
				<hr/> 5	<hr/> 18	<hr/> 23

The condition of those who entered the marriage state was as follows:—  
Bachelors, 3,194; spinsters, 3,213; widowers, 317; widows, 292; divorced men, 2;  
and divorced women, 8.

		No. of Marriages.	Bachelors.	Spinsters.	Widowers.	Widows.	Divorced Men.	Divorced Women.
City	...	1,931	1,756	1,744	173	181	2	6
Suburbs	...	1,582	1,438	1,469	144	111	0	2
		<hr/> 3,513	<hr/> 3,194	<hr/> 3,213	<hr/> 317	<hr/> 292	<hr/> 2	<hr/> 8

In the city the number of marriages contracted between bachelors and spinsters was 1,631; between bachelors and widows, 123; widowers and spinsters, 112; widowers and widows, 57; bachelors and divorced, 2; widowers and divorced, 4; divorced and spinster, 1; divorced and widow, 1.

T. A. COGHLAN, A.M. Inst. C.E.,  
Government Statistician.



## APPENDICES.

No. 1.—Estimated Population of the City and Suburbs of Sydney, on 31st December in each year, 1870–87.

Year.	City.			Suburbs.			Total Metropolis.		
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
1870 ...	37,349	38,144	75,493	28,497	30,588	59,085	65,846	68,732	134,578
1871 ...	38,631	39,049	77,680	30,662	32,279	63,941	69,293	71,328	140,621
1872 ...	39,668	39,787	79,455	32,440	33,870	66,310	72,108	73,657	145,765
1873 ...	40,774	40,708	81,442	34,207	35,757	69,964	74,981	76,465	151,446
1874 ...	42,123	41,508	83,631	36,583	37,964	74,547	78,706	79,472	158,178
1875 ...	43,191	42,076	85,267	38,756	40,052	78,808	81,947	82,128	164,075
1876 ...	44,440	42,821	87,261	40,939	42,314	83,253	85,379	85,135	170,514
1877 ...	46,832	44,176	91,008	45,019	46,298	91,317	91,851	90,474	182,325
1878 ...	48,809	45,419	94,228	48,358	50,360	98,718	97,167	95,779	192,946
1879 ...	51,748	47,076	98,824	53,547	55,901	109,448	105,295	102,977	208,272
1880 ...	53,910	48,251	102,161	57,932	60,078	118,010	111,842	108,329	220,171
1881 ...	56,793	49,785	106,578	63,746	64,968	128,714	120,539	114,753	235,292
1882 ...	58,828	51,284	110,112	67,629	70,490	138,119	126,457	121,774	248,231
1883 ...	62,603	53,244	115,847	74,530	78,420	152,950	137,133	131,664	268,797
1884 ...	66,152	55,289	121,441	81,194	86,566	167,760	147,346	141,855	289,201
1885 ...	70,498	57,361	127,859	90,291	95,502	185,793	160,789	152,863	313,652
1886 ...	73,277	59,569	132,846	98,321	101,542	199,863	171,598	161,111	332,709
1887 ...	73,277	59,569	132,846	107,863	107,986	215,849	181,140	167,555	348,695

No. 2.—Births in the City and Suburbs of Sydney, 1870–87.

Year.	City.			Suburbs.			Total Metropolis.		
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
1870 ...	1,505	1,404	2,909	1,310	1,236	2,546	2,815	2,640	5,455
1871 ...	1,535	1,445	2,980	1,342	1,259	2,601	2,877	2,704	5,581
1872 ...	1,487	1,392	2,879	1,226	1,210	2,436	2,713	2,602	5,315
1873 ...	1,556	1,509	3,065	1,453	1,310	2,763	3,009	2,819	5,828
1874 ...	1,628	1,493	3,121	1,452	1,335	2,787	3,080	2,828	5,908
1875 ...	1,595	1,567	3,162	1,481	1,427	2,908	3,076	2,994	6,070
1876 ...	1,694	1,616	3,310	1,518	1,540	3,058	3,212	3,156	6,368
1877 ...	1,732	1,667	3,399	1,662	1,584	3,246	3,394	3,251	6,645
1878 ...	1,764	1,720	3,484	1,848	1,826	3,674	3,612	3,546	7,158
1879 ...	1,889	1,825	3,714	2,122	2,025	4,147	4,011	3,850	7,861
1880 ...	1,855	1,880	3,735	2,317	2,302	4,619	4,172	4,182	8,354
1881 ...	1,895	1,846	3,741	2,702	2,469	5,171	4,597	4,315	8,912
1882 ...	1,877	1,877	3,754	2,970	2,906	5,876	4,847	4,783	9,630
1883 ...	1,974	1,782	3,756	3,273	3,261	6,534	5,247	5,043	10,290
1884 ...	2,119	2,010	4,129	3,945	3,798	7,743	6,064	5,808	11,872
1885 ...	1,931	1,955	3,886	4,316	4,064	8,380	6,247	6,019	12,266
1886 ...	1,988	1,846	3,834	4,817	4,481	9,298	6,805	6,327	13,132
1887 ...	1,881	1,896	3,777	4,813	4,825	9,638	6,694	6,721	13,415

No. 3.—Yearly Birth-rate in the City and Suburbs of Sydney, 1871–87.

Year.	Births per Thousand of the Population.			Year.	Births per Thousand of the Population.		
	City.	Suburbs.	Total Metropolis.		City.	Suburbs.	Total Metropolis.
1871 ...	38·91	42·62	40·56	1880 ...	37·16	40·61	39·00
1872 ...	36·63	37·69	37·12	1881 ...	35·84	41·91	39·13
1873 ...	38·09	40·55	39·22	1882 ...	34·64	44·04	39·83
1874 ...	37·81	38·57	38·16	1883 ...	33·24	44·89	39·80
1875 ...	37·44	37·92	37·67	1884 ...	34·80	48·28	42·55
1876 ...	38·37	37·73	38·06	1885 ...	31·17	47·40	40·69
1877 ...	38·13	37·18	37·67	1886 ...	29·41	48·22	40·63
1878 ...	37·61	38·66	38·15	1887 ...	28·43	46·37	39·37
1879 ...	38·47	39·84	39·18	Mean ...	35·65	41·91	39·22

No. 4.—Excess of Births over Deaths in the City and Suburbs of Sydney, 1871–87.

Year.	City.			Suburbs.			Total Metropolis.		
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
1871 ...	664	733	1,397	861	857	1,718	1,525	1,590	3,115
1872 ...	485	584	1,069	727	794	1,521	1,212	1,378	2,590
1873 ...	546	719	1,265	915	851	1,766	1,461	1,570	3,031
1874 ...	525	519	1,044	827	761	1,588	1,352	1,280	2,632
1875 ...	209	280	489	651	610	1,261	860	890	1,750
1876 ...	376	443	819	667	706	1,373	1,043	1,149	2,192
1877 ...	638	761	1,399	987	938	1,925	1,625	1,699	3,324
1878 ...	511	652	1,163	991	1,032	2,023	1,502	1,684	3,186
1879 ...	633	815	1,448	1,276	1,223	2,499	1,909	2,038	3,947
1880 ...	390	605	995	1,185	1,254	2,439	1,575	1,859	3,434
1881 ...	632	863	1,495	1,616	1,449	3,065	2,248	2,312	4,560
1882 ...	466	763	1,229	1,632	1,747	3,379	2,098	2,510	4,608
1883 ...	728	795	1,523	1,857	1,962	3,819	2,585	2,757	5,342
1884 ...	705	889	1,594	2,130	2,222	4,352	2,835	3,111	5,946
1885 ...	480	770	1,250	2,266	2,257	4,523	2,746	3,027	5,773
1886 ...	712	888	1,610	2,654	2,586	5,240	3,366	3,474	6,840
1887 ...	781	1,054	1,835	2,841	3,181	6,022	3,622	4,235	7,857



No. 5.—Number of Illegitimate Births in the City and Suburbs of Sydney, 1871-87.

Year.	City.			Suburbs.			Total Metropolis.		
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
1871	105	101	206	30	31	61	135	132	267
1872	94	88	182	34	32	66	128	120	248
1873	98	101	199	42	44	86	140	145	285
1874	117	124	241	40	48	88	157	172	329
1875	132	128	260	41	44	85	173	172	345
1876	170	136	306	43	45	88	213	181	394
1877	161	144	305	34	43	77	195	187	382
1878	165	152	317	54	54	108	219	206	425
1879	195	194	389	65	52	117	260	246	506
1880	204	207	411	69	81	150	273	288	561
1881	203	222	425	84	83	167	287	305	592
1882	220	220	440	75	86	161	295	306	601
1883	240	199	439	118	119	237	358	318	676
1884	272	255	527	132	127	259	404	382	786
1885	266	263	529	171	145	316	437	408	845
1886	278	255	533	188	184	372	466	439	905
1887	245	251	496	197	180	377	442	431	873

No. 6.—Percentage of Illegitimate Births in the City and Suburbs of Sydney, 1871-87.

Year.		City.	Suburbs.	Total Metropolis.	Year.		City.	Suburbs.	Total Metropolis.
1871	...	6.91	2.34	4.78	1880	...	11.00	3.25	6.71
1872	...	6.32	2.70	4.66	1881	...	11.36	3.23	6.64
1873	..	6.49	3.11	4.89	1882	...	11.72	2.74	6.24
1874	...	7.72	3.15	5.56	1883	...	11.68	3.62	6.59
1875	...	8.22	2.92	5.68	1884	...	12.76	3.34	6.62
1876	...	9.24	2.87	6.19	1885	...	13.61	3.77	6.89
1877	...	8.97	2.37	5.75	1886	...	13.90	4.00	6.89
1878	...	9.09	2.93	5.94	1887	...	13.13	3.91	6.51
1879	...	10.47	2.82	6.44					

No. 7.—Deaths in the City and Suburbs of Sydney, 1870–87.

Year	City.			Suburbs.			Total Metropolis.		
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
1870 ...	846	646	1,492	449	341	790	1,295	987	2,282
1871 ...	871	712	1,583	481	402	883	1,352	1,114	2,466
1872 ...	1,002	808	1,810	499	416	915	1,501	1,224	2,725
1873 ...	1,010	790	1,800	538	459	997	1,548	1,249	2,797
1874 ...	1,103	974	2,077	625	574	1,199	1,728	1,548	3,276
1875 ...	1,386	1,287	2,673	830	817	1,647	2,216	2,104	4,320
1876 ...	1,318	1,173	2,491	851	834	1,685	2,169	2,007	4,176
1877 ...	1,094	906	2,000	675	646	1,321	1,769	1,552	3,321
1878 ...	1,253	1,068	2,321	857	794	1,651	2,110	1,862	3,972
1879 ...	1,256	1,010	2,266	846	892	1,638	2,002	1,902	3,904
1880 ...	1,465	1,275	2,740	1,132	1,048	2,180	2,597	2,323	4,920
1881 ...	1,263	983	2,246	1,086	1,020	2,106	2,349	2,003	4,352
1882 ..	1,411	1,114	2,525	1,338	1,159	2,497	2,749	2,273	5,022
1883 ...	1,246	987	2,233	1,416	1,299	2,715	2,662	2,186	4,848
1884 ...	1,414	1,121	2,535	1,815	1,576	3,391	3,229	2,697	5,926
1885 ...	1,451	1,185	2,636	2,050	1,807	3,857	3,501	2,992	6,493
1886 ...	1,266	958	2,224	2,160	1,885	4,045	3,426	2,843	6,269
1887 ...	1,100	842	1,942	1,972	1,644	3,616	3,072	2,486	5,558

No. 8.—Yearly Death-rate per 1,000 Persons in the City and Suburbs of Sydney, 1871–87.

Year.	City.	Suburbs.	Total Metropolis.	Year.	City.	Suburbs.	Total Metropolis.
1871... ..	20·67	14·46	17·92	1880... ..	27·26	19·16	22·96
1872... ..	23·03	14·15	19·03	1881... ..	21·50	17·07	19·11
1873... ..	22·37	14·63	18·83	1882... ..	23·30	18·71	20·77
1874... ..	25·16	16·59	21·16	1883... ..	19·76	18·65	18·75
1875... ..	31·65	21·47	26·81	1884... ..	21·36	21·14	21·24
1876... ..	28·87	20·79	24·96	1885... ..	21·14	21·81	21·54
1877... ..	22·43	15·13	18·82	1886... ..	17·06	21·04	19·43
1878... ..	25·05	17·37	21·17	1887... ..	14·62	17·40	16·31
1879... ..	23·47	15·83	19·46	Mean ...	22·86	17·96	20·49



## No. 9.—Deaths of Children under 5 Years of Age in the City and Suburbs of Sydney, 1871–87.

Year.	City.			Suburbs.			Total Metropolis.		
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
1871 ...	389	354	743	259	228	487	648	582	1,230
1872 ...	453	362	815	280	223	503	733	585	1,318
1873 ...	404	315	719	272	238	510	676	553	1,229
1874 ...	472	457	929	347	325	672	819	782	1,601
1875 ...	632	632	1,264	469	444	913	1,101	1,076	2,177
1876 ...	529	495	1,024	472	445	917	1,001	940	1,941
1877 ...	446	369	815	365	358	723	811	727	1,538
1878 ...	530	492	1,022	466	454	920	996	946	1,942
1879 ...	492	407	899	465	437	902	957	844	1,801
1880 ...	661	632	1,293	684	592	1,276	1,345	1,224	2,569
1881 ...	455	393	848	591	556	1,147	1,046	949	1,995
1882 ...	523	467	990	720	635	1,355	1,243	1,102	2,345
1883 ...	516	424	940	738	717	1,455	1,254	1,141	2,395
1884 ...	553	500	1,053	979	859	1,838	1,532	1,395	2,927
1885 ...	531	512	1,043	1,103	988	2,091	1,634	1,500	3,134
1886 ...	491	428	919	1,147	1,003	2,150	1,638	1,431	3,069
1887 ...	398	372	770			1,854			2,624

## No. 10.—Deaths of Persons over 5 Years of Age in the City and Suburbs of Sydney, 1871–87.

Year.	City.			Suburbs.			Total Metropolis.		
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
1871 ...	482	358	840	222	174	396	704	532	1,236
1872 ...	549	446	995	219	193	412	768	639	1,407
1873 ...	606	475	1,081	266	221	487	872	696	1,568
1874 ...	631	517	1,148	278	249	527	909	766	1,675
1875 ...	754	655	1,409	361	373	734	1,115	1,028	2,143
1876 ...	789	878	1,667	379	389	768	1,168	1,267	2,435
1877 ...	648	537	1,185	310	288	598	958	825	1,783
1878 ...	723	576	1,299	391	340	731	1,114	916	2,030
1879 ...	764	603	1,367	381	365	746	1,145	968	2,113
1880 ...	804	643	1,447	448	456	904	1,252	1,099	2,351
1881 ...	808	590	1,398	495	464	959	1,303	1,054	2,337
1882 ...	888	707	1,595	618	524	1,142	1,506	1,231	2,737
1883 ...	730	563	1,293	678	582	1,260	1,408	1,145	2,553
1884 ...	861	621	1,482	836	717	1,553	1,697	1,338	3,035
1885 ...	920	673	1,593	947	819	1,766	1,867	1,492	3,359
1886 ...	775	530	1,305	1,013	882	1,895	1,788	1,412	3,200
1887 ...	702	470	1,172			1,762			2,934

No 11.—Yearly Death-rate per 1,000 Children under 5 Years of Age in the City and Suburbs of Sydney, 1871–87.

Year.	City.	Suburbs.	Total Metropolis.	Year.	City.	Suburbs.	Total Metropolis.		
1871	...	65.35	47.57	56.93	1880	...	95.30	86.99	91.44
1872	...	69.26	46.95	58.63	1881	...	61.79	71.00	66.67
1873	...	59.91	46.02	53.25	1882	...	70.27	74.93	72.89
1874	...	76.51	59.18	68.14	1883	...	65.32	73.48	70.05
1875	...	105.64	80.35	93.32	1884	...	71.49	82.22	78.93
1876	...	86.55	80.71	83.70	1885	...	69.82	81.50	77.20
1877	...	67.42	61.56	64.54	1886	...	60.91	74.92	68.53
1878	...	82.08	73.91	78.00	1887	...	50.50	57.86	55.49
1879	...	69.34	67.13	68.22	Mean	...	72.20	68.60	70.94

No. 12.—Yearly Death-rate per 1,000 Persons over 5 Years of Age in the City and Suburbs of Sydney, 1871–87.

Year.		City.	Suburbs.	Total Metropolis.	Year.		City.	Suburbs.	Total Metropolis.
1871	...	12.87	7.79	10.65	1880	...	16.61	9.12	12.63
1872	...	14.89	7.64	11.65	1881	...	15.42	8.94	11.91
1873	...	15.79	8.53	12.49	1882	...	16.38	9.90	13.06
1874	...	16.30	8.65	12.75	1883	...	13.11	10.02	11.38
1875	...	19.43	11.23	15.55	1884	...	14.26	11.25	12.54
1876	...	19.70	11.02	16.90	1885	...	14.51	11.68	13.64
1877	...	15.38	7.91	12.50	1886	...	11.32	11.54	11.45
1878	...	16.20	8.85	12.47	1887	...	9.97	10.02	10.00
1879	...	16.35	8.22	12.13	Mean	...	15.20	9.55	12.57

No. 13.—Deaths of Children under 1 Year of Age in the City and Suburbs of Sydney, 1871–87.

Year.		City.	Suburbs.	Total Metropolis.	Year.		City.	Suburbs.	Total Metropolis.
1871	...	467	318	785	1880	...	785	821	1,606
1872	...	507	339	846	1881	...	608	836	1,444
1873	...	487	341	828	1882	...	737	1,028	1,765
1874	...	588	403	991	1883	...	668	1,012	1,680
1875	...	613	461	1,074	1884	...	769	1,272	2,041
1876	...	561	521	1,082	1885	...	780	1,512	2,292
1877	...	562	476	1,038	1886	...	702	1,573	2,275
1878	...	650	591	1,241	1887	...	573	1,319	1,892
1879	...	612	594	1,206					



No. 14.—Deaths of Children under 1 Year of Age per 1,000 Births in the City and Suburbs of Sydney, 1871-87.

Year.		City.	Suburbs.	Total Metropolis.	Year.		City.	Suburbs.	Total Metropolis.
1871 ...	...	156·7	122·2	140·7	1880 ...	...	210·1	177·7	192·2
1872 ...	...	176·1	139·1	159·2	1881 ...	...	162·5	161·6	162·0
1873 ...	...	158·8	123·4	142·1	1882 ...	...	196·3	174·9	183·3
1874 ...	...	188·4	144·6	167·7	1883 ...	...	177·8	154·8	163·2
1875 ...	...	193·8	158·5	176·9	1884 ...	...	186·2	164·2	171·9
1876 ...	...	169·4	170·3	169·9	1885 ...	...	200·7	180·4	186·8
1877 ...	...	165·3	146·6	156·2	1886 ...	...	183·1	169·4	173·3
1878 ...	...	186·5	160·8	173·4	1887 ...	...	151·7	136·8	141·0
1879 ...	...	164·7	143·2	153·4	Mean ...	...	178·1	154·6	165·5

No. 15.—Births and Deaths of Males and Females registered in each Ward of the City of Sydney, from the 1st January to the 31st December, 1887, distinguishing the Deaths under 5 Years of Age.

Wards.	Births.			Deaths.						Total Deaths.
				Under 5 years.			Above 5 years.			
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	
1.—Gipps ... ..	179	179	358	29	29	58	55	48	103	161
2.—Bourke ... ..	28	31	59	6	2	8	42	13	55	63
3.—Brisbane ... ..	72	83	155	7	18	25	22	16	38	63
4.—Macquarie ... ..	99	103	202	11	15	26	19	24	43	69
5.—Cook ... ..	550	540	1,090	105	94	199	110	116	226	425
6.—Fitzroy ... ..	280	280	560	39	41	80	73	56	129	209
7.—Phillip ... ..	174	201	375	54	40	94	67	46	113	207
8.—Denison ... ..	368	358	726	97	92	189	81	62	143	332
Sydney Hospital (Bourke)...	...	1	1	4	1	5	187	59	246	251
St. Vincent's Hospital (Fitzroy) ..	...	...	...	...	...	...	34	21	55	55
Sydney Gaol (Fitzroy) ...	3	1	4	1	1	2	8	6	14	16
Lunatic Reception House (Fitzroy)	...	...	...	...	...	...	4	1	5	5
Benevolent Asylum (Phillip)	128	119	247	45	39	84	...	2	2	86
Totals ... ..	1,881	1,896	3,777	398	372	770	702	470	1,172	1,942

No. 16.—Births and Deaths registered in each of the Registry Districts forming the Metropolitan Division during the year 1887.

Districts.	Approximate Population at middle of 1887.	Births.			Deaths.			Total Deaths in District.	Deaths per 1,000 of Popula- tion.
		Males.	Females	Total.	Males.	Females	Total.		
SYDNEY ... ..	132,846	1,750	1,775	3,525	817	712	1,529	1,529	11'51
SUBURBS—									
North { Balmain ... ..	45,751 {	496	505	1,001	143	132	275	674	14'73
Western { Leichhardt ... ..		219	207	426	59	56	115		
{ Glebe ... ..		404	434	838	135	149	284		
West { Newtown ... ..	27,978 {	343	327	670	127	118	245	484	17'30
Central { St. Peters... ..		122	128	250	34	33	67		
{ Camperdown ... ..		117	113	230	37	35	72		
East { Macdonaldtown ... ..	28,267 {	148	119	267	52	48	100	687	17'95
Central { Redfern ... ..		368	382	750	171	149	320		
{ Darlington ... ..		61	74	135	30	28	58		
Eastern { *Waterloo† ... ..	32,712 {	439	417	856	176	133	309	446	13'63
{ Paddington ... ..		354	341	695	120	113	233		
{ Randwick... ..		57	60	117	20	15	35		
{ Waverley ... ..	41,500 {	146	154	300	44	50	94	627	15'11
{ Woollahra ... ..		117	137	254	46	38	84		
{ Ashfield ... ..		205	168	373	57	57	114		
Western { Burwood ... ..	21,655 {	211	220	431	69	47	116	220	10'16
and { †Canterbury ... ..		27	26	53	17	8	25		
Southern { Five Dock... ..		37	38	75	5	8	13		
{ †Kogarah... ..	21,655 {	73	93	166	29	32	61	413	14'62
{ Marrickville ... ..		201	243	444	70	69	139		
{ Petersham ... ..		176	185	361	56	70	126		
North { West Botany ... ..	21,655 {	62	73	135	23	10	33	478	17'40
Shore { St. Leonards ... ..		367	327	694	96	84	180		
{ Manly ... ..		63	54	117	26	14	40		
Sydney { Sydney Hospital... ..	.....	...	1	1	191	60	251	478	16'31
{ St. Vincent's Hos- .....	.....	...	...	...	34	21	55		
{ Sydney Gaol ... ..	.....	3	1	4	9	7	16		
{ Lunatic Reception .....	.....	...	...	...	4	1	5	478	16'31
{ House. .....	.....	...	...	...	...	...	...		
{ Benevolent Asylum .....	.....	128	119	247	45	41	86		
{ CallanParkAsylum, .....	.....	...	...	...	36	19	55	478	16'31
{ Leichhardt. .....	.....	...	...	...	...	...	...		
{ Children's Hos- .....	.....	...	...	...	16	8	24		
{ pital, Glebe. .....	.....	...	...	...	...	...	...	478	16'31
{ Prince Alfred Hos- .....	.....	...	...	...	137	66	203		
{ pital, Camper- .....	.....	...	...	...	...	...	...		
Suburbs { down. .....	.....	...	...	...	...	...	...	478	16'31
{ Little Bay Hos- .....	.....	...	...	...	115	35	150		
{ pital, Waterloo. .....	.....	...	...	...	...	...	...		
{ Infants' Home, .....	.....	...	...	...	18	15	33	478	16'31
{ Ashfield. .....	.....	...	...	...	...	...	...		
{ Quarantine Station, .....	.....	...	...	...	8	5	13		
{ Manly. .....	.....	...	...	...	...	...	...		
Total, Sydney ... ..	132,846	1,881	1,896	3,777	1,100	842	1,942	1,942	14'62
Total, Suburbs ... ..	207,863	4,813	4,825	9,638	1,972	1,644	3,616	3,616	17'40
Total, Metropolis ... ..	340,709	6,694	6,721	13,415	3,072	2,486	5,558	5,558	16'31

\* Includes Alexandria and Botany. † Includes part of Canterbury Electorate not incorporated and not comprised in other sub-districts. ‡ Includes Hurstville.



No. 17.—Classification of Diseases which were fatal to Both Sexes under and over 5 Years, and the proportions per cent. of Deaths from each cause in Sydney during the year 1887.

Class.	Causes of Death.	Under 5 Years.	Over 5 Years.	Total.	Proportion per cent.
I.	Specific Febrile, or Zymotic diseases ...	154	83	237	12'20
II.	Parasitic diseases ... ..	4	1	5	0'26
III.	Dietic diseases ... ..	8	34	42	2'16
IV.	Constitutional diseases... ..	67	319	386	19'88
V.	Developmental diseases ... ..	83	24	107	5'51
VI.	Local diseases ... ..	345	546	891	45'88
VII.	Violence... ..	20	148	168	8'65
VIII.	Ill-defined and not specified causes ... ..	89	17	106	5'46
	All causes ... ..	770	1,172	1,942	100'00

## SYDNEY.

## CLASS I.—SPECIFIC FEBRILE, OR ZYMOTIC DISEASES.

- Order 1. *Miasmatic Diseases*.—Measles, 11; scarlet fever, 11; whooping-cough, 16; diphtheria, 15; simple and ill-defined fever, 1; typhoid, enteric fever, 46.  
 Order 2. *Diarrhæal Diseases*.—Cholera, 9; diarrhæa, 83; dysentery, 6.  
 Order 3. *Malarial Diseases*.—None.  
 Order 4. *Zoogenous Diseases*.—None.  
 Order 5. *Venereal Diseases*.—Syphilis, 23; gonorrhœa, stricture of urethra, 5.  
 Order 6. *Septic Diseases*.—Erysipelas, 3; pyæmia, septicæmia, 3; puerperal fever, 5.

## CLASS II.—PARASITIC DISEASES.

Thrush, 4; hydatid disease, 1.

## CLASS III.—DIETIC DISEASES.

Starvation, want of breast milk, 9; intemperance—(a) chronic alcoholism, 23; (b) delirium tremens, 9; surfeit (over-eating), 1.

## CLASS IV.—CONSTITUTIONAL DISEASES.

Rheumatic fever, rheumatism of heart, 6; rheumatism, 15; gout, 3; cancer, 52; tabes mesenterica, 43; tubercular meningitis (hydrocephalus), 18; phthisis, 221; other forms of tuberculosis, scrofula, &c., 15; purpura, hæmorrhagic diathesis, 1; anæmia, chlorosis, leucocythæmia, 5; diabetes mellitus, 7.

## CLASS V.—DEVELOPMENTAL DISEASES.

Premature birth, 61; atelectasis, 3; cyanosis, 8; imperforate anus, 4; cleft palate, 1; other congenital defects, 6; old age, 24, at ages ranging from 60 to 91 years.

## CLASS VI.—LOCAL DISEASES.

- Order 1. *Diseases of the Nervous System*.—Inflammation of the brain or its membranes, 38; apoplexy, 53; softening of the brain, 6; hemiplegia, brain paralysis, 18; insanity, general paralysis of the insane, 3; chorea, 1; epilepsy, 6; convulsions, 91; idiopathic tetanus, 5; paraplegia, diseases of the spinal cord, 4; brain disease (undefined), 10.  
 Order 2. *Diseases of the Organs of Special Sense*.—Otitis, otorrhœa, disease of the ear, 1; epistaxis, disease of the nose, 2; ophthalmia, disease of the eye, 1.

- Order 3. *Diseases of the Circulatory System*.—Endocarditis, valvular disease, 35; hypertrophy of heart, 2; angina pectoris, 4; syncope, 7; aneurism, 15; embolism, thrombosis, 2; heart disease (undefined), 71.
- Order 4. *Diseases of the Respiratory System*.—Laryngitis, 5; croup, 18; other diseases of larynx and trachea, 1; emphysema, asthma, 10; bronchitis, 78; pneumonia, 72; congestion of the lungs, 21; pleurisy, 6; lung disease (unspecified), 4.
- Order 5. *Diseases of the Digestive System*.—Stomatitis, 3; dentition, 35; sore throat, quinsy, 3; dyspepsia, 1; melæna, 1; diseases of the stomach, 14; enteritis, 59; ulceration of intestines, 3; ileus, obstruction of intestine, 6; intussusception, 1; hernia, 2; peritonitis, 12; ascites, 4; cirrhosis of liver, 21; hepatitis, 5; jaundice, 2; other diseases of liver, 12.
- Order 6. *Diseases of the Lymphatic System and Ductless Glands*.—Bronchocele, 1; Addison's disease, 1.
- Order 7. *Diseases of the Urinary System*.—Acute nephritis, 17; Bright's disease, 31; uræmia, 12; suppression of urine, 1; hæmaturia, 1; disease of bladder and prostate, 7; others, 1.
- Order 8. *Diseases of the Organs of Generation*.—Ovarian disease, 4; diseases of uterus and vagina, 4; disorders of menstruation, 1; pelvic abscess, 2.
- Order 9. *Diseases of Parturition*.—Abortion, miscarriage, 1; puerperal mania, 1; puerperal convulsions, 13; placenta prævia, flooding, 4; other accidents of childbirth, 4.
- Order 10. *Diseases of the Organs of Locomotion*.—Caries, necrosis, 2; arthritis, osteitis, periostitis, 2.
- Order 11. *Diseases of the Integumentary System*.—Carbuncle, 2; ulcer, bed sores, 2; eczema, 2; pemphigus, 1.

CLASS VII.—VIOLENCE.

- Order 1. *Accident or Negligence*.—Fractures and contusions, 65; wounds—cuts, 1; burns, 8; scalds, 2; sunstroke, 3; poison, 3; drowning, 15; suffocation, 4; otherwise, 3.
- Order 2. *Homicide*.—Murder, 10; manslaughter, 2.
- Order 3. *Suicide*.—Wounds—(a) gunshot, 3; (b) cut, stab, 1; poison, 10; drowning, 1; hanging, 4.
- Order 4. *Execution*.—Judicial hanging, 4.
- Order 5. *Violent Deaths not Classed*.—Found drowned, 22; other violent deaths (open verdicts), 7.

CLASS VIII.—ILL-DEFINED AND NOT SPECIFIED CAUSES.

Dropsy, 6; atrophy, debility, inanition, 85; tumour, 8; abscess, 1; hæmorrhage, 1; other ill-defined and not specified causes, 5.

Males, 1,100; Females, 842. Total, 1,942.

No. 18.—Classification of Diseases which were fatal to Both Sexes under and over 5 Years, and the proportions per cent. of Deaths from each cause, in the Suburbs of Sydney during the year 1887.

Class.	Causes of Deaths.	Under 5 Years.	Over 5 Years.	Total.	Proportion per cent.
I.	Specific Febrile, or Zymotic diseases ...	405	215	620	17·14
II.	Parasitic diseases ... ..	3	7	10	0·27
III.	Dietic diseases ... ..	22	19	41	1·13
IV.	Constitutional diseases ... ..	145	427	572	15·82
V.	Developmental diseases ... ..	131	87	218	6·03
VI.	Local diseases ... ..	828	865	1,693	46·83
VII.	Violence ... ..	38	108	146	4·04
VIII.	Ill-defined and not specified causes ... ..	282	34	316	8·74
	All causes ... ..	1,854	1,762	3,616	100·00



## SUBURBS.

## CLASS I.—SPECIFIC FEBRILE, OR ZYMOTIC DISEASES.

- Order 1. *Miasmatic Diseases*.—Small-pox, 13; measles, 33; scarlet fever, 32; whooping-cough, 26; diphtheria, 49; cerebro-spinal fever, 1; simple and ill-defined fever, 1; typhoid, enteric fever, 152.  
 Order 2. *Diarrhæal Diseases*.—Cholera, 7; diarrhœa, 245; dysentery, 14.  
 Order 3. *Malarial Diseases*.—Remittent fever, 3.  
 Order 4. *Zoogenous Diseases*.—None.  
 Order 5. *Venereal Diseases*.—Syphilis, 20.  
 Order 6. *Septic Diseases*.—Phagedæna, 2; erysipelas, 6; pyæmia, septicæmia, 6; puerperal fever, 10.

## CLASS II.—PARASITIC DISEASES.

Thrush, 2; hydatid disease, 8.

## CLASS III.—DIETIC DISEASES.

Starvation, want of breast milk, 22; intemperance—(a) chronic alcoholism, 15; (b) delirium tremens, 4.

## CLASS IV.—CONSTITUTIONAL DISEASES.

Rheumatic fever, rheumatism of heart, 5; rheumatism, 7; gout, 1; cancer, 87; tabes mesenterica, 79; tubercular meningitis (hydrocephalus), 53; phthisis, 289; other forms of tuberculosis, scrofula, &c., 29; purpura, hæmorrhagic diathesis 5; anæmia, chlorosis, leucocythæmia, 9; diabetes mellitus, 7; others, 1.

## CLASS V.—DEVELOPMENTAL DISEASES.

Premature birth, 107; atelectasis, 4; cyanosis, 5; spina bifida, 1; cleft palate, 3; other congenital defects, 11; old age, 87, at ages ranging from 54 to 95 years.

## CLASS VI.—LOCAL DISEASES.

- Order 1. *Diseases of the Nervous System*.—Inflammation of the brain or its membranes, 99; apoplexy, 78; softening of the brain, 10; hemiplegia, brain paralysis, 36; paralysis agitans, 1; insanity, general paralysis of the insane, 28; chorea, 2; epilepsy, 28; convulsions, 159; laryngismus stridulus, 2; idiopathic tetanus, 7; paraplegia, diseases of the spinal cord, 15; others, 13.  
 Order 2. *Diseases of the Organs of Special Sense*.—Otitis, otorrhœa, disease of the ear, 5.  
 Order 3. *Diseases of the Circulatory System*.—Endocarditis, valvular disease, 105; pericarditis, 7; hypertrophy of heart, 1; angina pectoris, 3; syncope, 13; aneurism, 12; senile gangrene, 1; embolism thrombosis, 2; heart disease (unspecified), 63.  
 Order 4. *Diseases of the Respiratory System*.—Laryngitis, 18; croup, 30; other diseases of the larynx and trachea, 3; emphysema, asthma, 11; bronchitis, 132; pneumonia 124; pleurisy, 13; congestion of the lungs, 32; others, 4.  
 Order 5. *Diseases of the Digestive System*.—Stomatitis, 2; dentition, 72; sore throat, quinsy, 2; dyspepsia, 5; melæna, 1; diseases of the stomach, 27; enteritis, 219; ulceration of intestines, 7; ileus, obstruction of intestine, 14; stricture or strangulation of intestine, 1; intussusception, 3; hernia, 6; peritonitis, 28; ascites, 3; gallstones, 1; cirrhosis of liver, 24; hepatitis, 18; jaundice 10; other diseases of liver, 26; others, 4.  
 Order 6. *Diseases of the Lymphatic System and Ductless Glands*.—Diseases of lymphatic system, 1; diseases of spleen, 2; Addison's disease, 1.  
 Order 7. *Diseases of the Urinary System*.—Acute nephritis, 18; Bright's disease, 41; uræmia, 7; suppression of urine, 4; calculus, 1; disease of bladder and prostate, 13; others, 9.  
 Order 8. *Diseases of the Organs of Generation*.—Ovarian disease, 3; diseases of uterus and vagina, 7; disorders of menstruation, 1; pelvic abscess, 2; diseases of testes, penis, scrotum, &c., 2.  
 Order 9. *Diseases of Parturition*.—Abortion, miscarriage, 4; puerperal mania, 1; puerperal convulsions, 8; placenta prævia, flooding, 8; phlegmasia dolens, 1; other accidents of childbirth, 5.  
 Order 10. *Diseases of the Organs of Locomotion*.—Caries, necrosis, 7; arthritis, ostitis, periostitis, 4; others, 1.  
 Order 11. *Diseases of the Integumentary System*.—Carbuncle, 1; ulcer, bed sores, 3; eczema, 8.

## CLASS VII.—VIOLENCE.

- Order 1. *Accident or Negligence*.—Fractures and contusions, 42; wounds, cuts, 4; burns, 10; scalds, 5; sunstroke, 1; poison, 7; bite of snake, 1; drowning, 24; suffocation, 9; otherwise, 2.  
 Order 2. *Homicide*.—Murder, 6.  
 Order 3. *Suicide*.—Wounds—(a) gunshot, 3; (b) cut, stab, 6; poison, 8; drowning, 2; hanging, 10.  
 Order 4. *Execution*.—None.  
 Order 5. *Violent Deaths not classed*.—Found drowned, 6.

## CLASS VIII.—ILL-DEFINED AND NOT SPECIFIED CAUSES.

Dropsy, 8; atrophy, debility, inanition, 271; tumour, 4; abscess, 2; hæmorrhage, 4; sudden (cause unascertained), 2; other ill-defined and not specified causes, 25.

Males, 1,972; females, 1,644. Total, 3,616.

No. 19.—Deaths from various Prevalent Diseases, &c., in the City, 1875-1887.

Cause of Death.	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.
Measles ... ..	162	1	.....	.....	1	144	6	1	10	1	.....	.....	11
Scarlet Fever ... ..	105	206	4	3	13	16	8	3	2	21	20	22	11
Whooping-cough ... ..	.....	1	15	92	3	48	16	13	3	33	4	27	16
Diphtheria ... ..	36	17	20	17	12	8	9	8	13	11	23	10	15
Typhoid Fever ... ..	75	77	61	103	77	54	58	96	77	100	93	69	46
Cholera ... ..	20	18	16	18	24	19	13	16	19	14	19	8	9
Diarrhœa ... ..	208	133	157	147	158	173	141	184	117	144	172	102	83
Dysentery ... ..	29	15	12	35	29	23	11	14	8	12	18	7	6
Puerperal Fever ... ..	18	11	2	2	3	6	7	2	.....	4	4	6	5
Cancer ... ..	44	48	33	41	47	52	44	55	49	41	51	56	52
Tabes Mesenterica ... ..	57	60	41	61	59	51	41	40	49	55	41	26	43
Phthisis ... ..	201	202	166	176	237	212	234	281	227	231	282	205	221
Inflammation of Brain ... ..	61	44	50	52	53	53	48	48	41	59	63	38	38
Apoplexy ... ..	67	45	61	57	54	47	74	57	52	53	82	48	53
Paralysis ... ..	24	37	40	20	34	35	30	25	24	25	34	3	18
Epilepsy ... ..	9	15	12	17	13	17	27	20	13	24	19	8	6
Convulsions ... ..	106	112	79	116	118	157	114	110	134	155	126	114	91
Heart Disease ... ..	120	126	99	117	135	140	104	143	144	115	118	171	136
Croup ... ..	27	34	17	34	40	20	16	20	34	23	23	13	18
Bronchitis ... ..	106	108	85	94	93	148	120	133	112	141	125	108	78
Pneumonia ... ..	106	82	74	71	64	110	88	115	86	95	133	102	72
Congestion of Lungs ... ..	13	19	22	31	25	81	28	32	24	31	18	11	21
Dentition ... ..	41	35	51	30	23	38	19	32	29	18	44	32	35
Enteritis ... ..	38	29	22	59	56	58	47	30	55	70	46	58	59
Bright's Disease (Nephria) ... ..	32	44	30	39	40	46	44	44	35	33	22	32	31
Childbirth ... ..	30	17	18	13	8	20	17	8	9	10	13	22	23
Accidents ... ..	79	81	75	98	84	109	137	111	87	108	156	138	104
Atrophy and Debility ... ..	162	130	114	123	129	173	144	147	161	194	190	168	85



No. 20.—Deaths of Children under 5 Years of Age from various Prevalent Diseases, &c., in the City, 1875–1887.

Cause of Death.	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.
Measles ... ..	144	.....	....	.....	1	127	4	1	9	1	.....	.....	10
Scarlet Fever ... ..	76	136	3	2	8	13	7	2	2	15	15	17	10
Whooping-cough ... ..	.....	1	13	91	2	45	15	13	3	33	4	25	16
Diphtheria ... ..	30	13	15	11	10	7	7	6	10	8	20	7	2
Typhoid Fever ... ..	15	10	13	22	8	10	7	11	6	8	4	2	4
Cholera ... ..	13	12	12	12	16	13	9	9	16	10	12	7	6
Diarrhoea ... ..	164	93	120	105	129	146	112	156	95	118	146	85	75
Dysentery ... ..	5	5	3	8	11	11	5	4	1	5	8	2	.....
Tabes Mesenterica ... ..	57	60	41	61	59	51	41	40	49	55	41	26	42
Inflammation of Brain ... ..	52	36	42	46	47	43	32	32	33	41	53	34	28
Convulsions ... ..	101	110	76	112	114	155	112	106	131	150	124	113	91
Croup ... ..	19	32	15	29	31	15	13	18	27	17	16	9	14
Bronchitis ... ..	57	49	34	58	51	80	66	85	62	78	76	70	46
Pneumonia ... ..	53	29	24	22	24	55	29	22	28	30	34	31	25
Congestion of Lungs ... ..	6	9	18	21	15	64	17	17	18	16	5	9	15
Dentition ... ..	41	35	51	30	23	38	19	32	29	18	43	32	35
Enteritis ... ..	22	17	13	36	39	46	34	11	33	43	29	51	50
Accidents ... ..	14	17	14	26	17	21	22	13	13	14	14	18	12
Atrophy and Debility ... ..	162	128	114	123	129	173	144	147	161	194	189	168	85

No. 21.—Deaths of Persons over 5 Years of Age from various Prevalent Diseases, &amp;c., in the City, 1875-1887.

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Cause of Death.	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.
Measles ... ..	18	1	.....	.....	.....	17	2	.....	1	.....	.....	.....	1
Scarlet Fever ... ..	29	70	1	1	5	3	1	1	.....	6	5	5	1
Diphtheria ... ..	6	4	5	6	2	1	2	2	3	3	3	3	3
Typhoid Fever ... ..	60	67	48	81	69	44	51	85	71	92	89	67	42
Cholera ... ..	7	6	4	6	8	6	4	7	3	4	7	1	3
Diarrhœa ... ..	44	40	37	42	29	27	29	28	22	26	26	17	8
Dysentery... ..	24	10	9	27	18	12	6	10	7	7	10	5	6
Puerperal Fever ... ..	18	11	2	2	3	6	7	2	.....	4	4	6	5
Cancer ... ..	44	48	33	41	47	52	44	55	48	41	51	56	52
Phthisis ... ..	193	194	163	174	235	209	232	273	221	222	274	205	219
Inflammation of Brain ... ..	9	8	8	6	6	10	16	16	8	18	10	4	10
Apoplexy ... ..	67	45	61	57	54	47	74	57	51	53	82	48	53
Paralysis ... ..	24	37	40	20	34	35	30	25	24	25	34	18	18
Epilepsy ... ..	9	15	12	17	13	17	27	20	13	24	19	8	6
Heart Disease ... ..	117	126	97	108	131	135	103	139	144	112	114	170	136
Bronchitis ... ..	49	59	51	36	42	68	54	48	50	63	49	38	32
Pneumonia ... ..	53	53	50	49	40	55	59	93	58	65	99	71	47
Congestion of Lungs ... ..	7	10	4	10	10	17	11	15	6	15	13	2	6
Enteritis ... ..	16	12	9	23	17	12	13	19	22	27	17	7	9
Bright's Disease (Nephria) ... ..	29	40	29	38	39	46	44	42	34	32	22	32	30
Childbirth ... ..	30	17	18	13	8	20	17	8	9	10	13	22	23
Accidents ... ..	65	64	61	72	67	88	115	98	74	94	142	120	92



No. 22.—Deaths from various Prevalent Diseases, &c., in the Suburbs, 1875–87.

Cause of Death.	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.
Measles ... ..	101	.....	.....	.....	.....	70	8	2	13	6	2	3	33
Scarlet Fever ... ..	115	247	4	1	7	6	1	2	8	38	42	40	32
Whooping-cough ... ..	2	1	3	77	6	50	32	5	5	78	20	91	26
Dyphtheria ... ..	12	22	31	27	27	30	10	13	38	42	43	35	49
Typhoid Fever ... ..	41	51	39	67	38	35	35	71	93	109	130	230	152
Cholera ... ..	5	12	19	11	13	24	19	20	20	12	46	14	7
Diarrhoea ... ..	144	107	114	142	147	135	156	257	246	280	309	319	245
Dysentery... ..	14	12	13	28	28	27	16	21	10	27	30	19	14
Puerperal Fever ... ..	14	9	1	2	3	4	1	7	.....	9	6	16	10
Cancer ... ..	19	21	16	21	23	33	35	35	39	52	49	97	87
Tabes Mesenterica ... ..	45	32	43	31	39	42	52	59	56	63	89	105	79
Phthisis ... ..	105	102	104	131	147	175	180	211	255	292	297	311	289
Inflammation of Brain ... ..	36	13	34	35	54	37	48	52	66	92	106	86	99
Apoplexy ... ..	32	26	28	28	18	31	35	37	68	50	61	86	78
Paralysis ... ..	13	5	12	20	14	11	22	25	32	33	42	26	37
Epilepsy ... ..	17	1	10	11	9	13	17	12	28	28	35	21	28
Convulsions ... ..	82	84	67	90	89	132	139	137	134	180	212	186	159
Heart Disease ... ..	75	34	61	67	95	107	110	106	126	159	178	208	207
Croup ... ..	24	32	41	49	29	26	10	21	45	16	48	23	30
Bronchitis ... ..	70	81	51	70	88	141	107	151	129	176	141	163	132
Pneumonia ... ..	63	48	45	56	41	107	86	114	107	132	152	171	124
Congestion of Lungs ... ..	21	6	17	19	18	75	50	40	34	40	42	36	32
Dentition ... ..	51	34	44	37	47	49	50	63	44	64	94	96	72
Enteritis ... ..	32	23	37	59	75	62	79	104	87	193	200	159	219
Bright's Disease (Nephria) ... ..	11	7	12	15	20	16	20	24	22	29	42	50	41
Childbirth ... ..	7	12	5	9	4	18	16	13	10	15	14	23	27
Accidents ... ..	29	42	32	53	44	40	64	75	90	100	125	87	105
Atrophy and Debility ... ..	148	163	102	138	153	236	228	242	312	345	399	372	271

No. 23.—Deaths of Children under 5 Years of Age from various Prevalent Diseases, &amp;c., in the Suburbs, 1875-87.

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Cause of Death.	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.
Measles ... ..	73	.....	.....	.....	.....	59	7	2	10	6	2	3	27
Scarlet Fever ... ..	82	154	2	1	4	2	.....	1	7	30	38	25	23
Whooping-cough ... ..	2	1	3	77	6	49	31	5	5	73	20	89	26
Diphtheria ... ..	12	15	20	18	20	23	6	9	23	24	28	26	35
Typhoid Fever ... ..	10	10	6	15	4	6	6	5	10	15	12	15	15
Cholera ... ..	5	10	16	8	10	16	16	16	18	9	37	12	6
Diarrhœa ... ..	118	95	100	122	130	125	145	231	220	254	292	306	230
Dysentery ... ..	10	9	8	13	19	16	11	15	7	22	23	8	11
Tabes Mesenterica ... ..	45	32	43	31	39	42	52	59	52	63	89	104	79
Inflammation of Brain... ..	33	11	25	26	46	31	40	41	51	74	78	71	77
Convulsions ... ..	77	81	67	90	89	132	139	137	134	180	212	184	159
Croup ... ..	20	27	34	42	25	23	10	17	40	14	39	16	30
Bronchitis ... ..	53	53	35	44	58	99	64	93	88	126	90	115	89
Pneumonia ... ..	38	24	23	27	22	71	47	48	56	67	61	83	66
Congestion of Lungs ... ..	13	3	14	15	12	59	38	19	20	28	24	27	24
Dentition ... ..	51	34	44	37	47	49	50	63	44	64	94	96	72
Enteritis... ..	23	10	26	46	55	40	49	79	69	17	89	150	202
Accidents ... ..	5	14	10	15	17	13	13	23	18	32	35	37	31
Atrophy, Debility ... ..	148	163	102	138	153	236	228	242	312	345	399	372	271



No. 24.—Deaths of Persons over 5 Years of Age from various Prevalent Diseases, &c., in the Suburbs, 1875-87.

Cause of Death.	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.
Measles ... ..	28	.....	.....	.....	.....	11	1	.....	3	.....	.....	.....	6
Scarlet Fever ... ..	33	93	2	.....	3	4	.....	1	1	8	4	15	9
Diphtheria ... ..	.....	7	11	9	7	7	4	4	15	18	15	9	14
Typhoid Fever ... ..	31	41	33	52	34	29	29	66	83	94	118	215	137
Cholera ... ..	.....	2	3	3	3	8	3	4	2	3	9	2	1
Diarrhoea ... ..	26	12	14	20	27	10	11	26	26	26	17	13	15
Dysentery ... ..	4	3	5	15	9	11	5	6	3	5	7	11	3
Puerperal Fever ... ..	14	9	1	2	3	4	1	7	.....	9	6	16	10
Cancer ... ..	18	20	16	21	23	31	34	35	39	52	46	97	87
Phthisis ... ..	101	101	98	125	138	164	165	196	230	267	275	306	.....
Inflammation of Brain ... ..	3	2	9	9	8	6	8	11	15	18	28	15	22
Apoplexy ... ..	31	26	28	28	17	30	35	37	59	50	61	86	78
Paralysis ... ..	13	5	11	20	14	11	22	25	32	33	41	26	37
Epilepsy ... ..	17	1	9	10	9	13	17	12	28	28	30	21	28
Heart Disease ... ..	71	33	59	64	88	102	102	96	118	142	170	205	200
Bronchitis ... ..	17	28	16	26	30	42	43	58	41	50	51	48	43
Pneumonia ... ..	25	24	22	29	19	36	39	66	51	65	91	88	58
Congestion of the Lungs ... ..	8	3	3	4	6	16	12	21	14	12	14	9	8
Enteritis ... ..	9	13	11	13	20	22	30	25	18	176	111	9	17
Bright's Disease (Nephria) ... ..	10	1	12	13	20	16	20	22	21	26	41	47	41
Childbirth ... ..	7	12	5	9	4	18	16	13	10	15	14	23	27
Accidents ... ..	24	28	22	38	27	27	51	52	72	68	90	50	74

No. 25.—Death-rate of Children under 5 Years of Age from various Prevalent Diseases, &c., in the City, 1875-87.

Cause of Death.	Per 10,000 of the mean Population under 5 Years of Age.												
	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.
Measles ... ..	120·35	.....	.....	.....	0·77	94·59	2·91	0·70	6·25	0·67	.....	.....	6·56
Scarlatina ... ..	63·51	114·99	2·48	1·60	6·17	9·68	5·10	1·41	1·38	10·18	10·04	11·26	6·56
Whooping-cough ... ..	.....	0·84	10·75	73·09	1·54	33·52	10·93	9·23	2·08	22·41	2·67	16·57	10·49
Diphtheria ... ..	25·07	10·99	12·40	8·83	7·71	5·21	5·10	4·25	6·94	5·43	13·38	4·63	1·31
Typhoid ... ..	12·53	8·45	10·75	17·67	6·17	7·44	5·10	7·80	4·16	5·43	2·67	1·32	2·62
Cholera ... ..	10·86	10·15	9·93	9·64	12·34	9·68	6·56	6·39	11·12	6·79	8·01	4·64	3·93
Diarrhoea ... ..	137·06	78·63	99·27	84·33	99·49	108·74	81·61	110·72	66·01	80·12	97·74	56·33	49·19
Dysentery ... ..	4·17	4·22	2·48	6·42	8·48	8·19	3·64	2·83	0·69	3·39	5·35	1·32	.....
Tabes Mesenterica ... ..	47·64	50·73	33·92	48·99	45·51	37·98	29·88	28·39	34·05	37·35	27·36	17·23	27·55
Inflammation of Brain ... ..	43·46	30·44	34·75	36·95	36·25	32·03	23·32	22·71	22·93	27·84	35·36	22·53	18·36
Convulsions ... ..	84·41	93·00	62·87	89·95	87·92	115·44	81·61	75·23	91·03	101·85	83·01	74·89	59·68
Croup ... ..	15·87	27·05	12·40	23·29	23·91	11·17	9·47	12·77	18·76	11·54	10·71	5·96	9·18
Bronchitis ... ..	47·64	41·43	28·12	46·58	32·33	59·58	48·09	60·33	43·08	52·96	50·88	46·39	30·17
Pneumonia ... ..	44·29	24·22	19·85	17·67	18·21	40·96	21·13	15·61	19·45	20·37	22·76	20·54	16·40
Congestion of Lungs ... ..	5·01	7·61	14·89	16·86	11·57	47·67	12·39	12·07	12·51	10·86	3·34	5·96	9·84
Teething ... ..	34·26	29·59	42·19	24·09	17·73	28·40	13·84	22·71	20·15	12·22	28·78	21·21	22·95
Enteritis ... ..	18·38	14·37	10·75	28·91	30·08	34·26	24·77	7·80	22·93	29·19	19·41	33·80	32·79
Accidents ... ..	11·70	14·37	11·58	20·88	13·11	15·64	16·03	9·22	9·03	9·50	9·35	11·94	7·87
Atrophy and Debility ... ..	135·39	108·22	94·31	98·79	99·49	128·85	104·93	104·34	111·88	131·72	126·53	111·34	55·75



No. 26.—Death-rate of Children under 5 Years of Age from various Prevalent Diseases, &c., in the Suburbs, 1875–1887.

Cause of Death.	Per 10,000 of mean Population under 5 years of age.													
	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	
Measles ... ..	64'24	'00	'00	'00	'00	40'23	4'33	1'10	5'05	2'68	'77	1'04	8'43	
Scarlatina ... ..	72'16	135'53	1'70	'80	2'97	1'36	'00	'55	3'53	13'42	14'81	8'71	7'18	
Whooping-cough ... ..	1'76	0'88	2'55	61'86	4'47	33'41	19'19	2'76	2'52	32'66	7'79	31'01	8'11	
Diphtheria ... ..	10'56	13'20	17'02	14'46	14'88	15'68	3'71	4'97	11'61	10'73	10'91	9'06	10'92	
Typhoid... ..	8'80	8'80	5'10	12'05	2'97	4'09	3'71	2'76	5'05	6'71	4'67	5'23	4'68	
Cholera ... ..	4'40	8'80	13'62	6'42	7'44	10'91	9'90	8'85	9'09	4'03	14'42	4'18	1'87	
Diarrhœa ... ..	103'85	83'61	85'14	98'00	96'76	85'22	89'76	127'74	111'11	113'62	113'81	106'63	71'78	
Dysentery ... ..	8'80	7'92	6'81	10'44	14'14	10'90	6'80	8'29	3'53	9'84	8'96	2'79	3'43	
Tabes Mesenterica ... ..	39'60	28'16	36'61	24'90	29'03	28'63	32'19	32'63	26'26	28'18	34'78	36'24	24'66	
Inflammation of Brain... ..	29'04	9'68	21'29	20'89	34'24	21'13	24'76	22'67	25'76	33'10	30'40	24'74	24'03	
Convulsions ... ..	67'77	71'28	57'04	72'30	66'24	89'99	86'04	75'76	67'67	80'52	82'63	64'12	49'62	
Croup ... ..	17'60	23'76	28'95	33'74	18'60	15'68	6'19	9'40	20'20	6'26	15'20	5'57	9'36	
Bronchitis ... ..	46'64	46'64	29'80	35'34	43'17	67'49	39'61	51'42	44'44	56'36	35'07	40'07	27'78	
Pneumonia ... ..	33'44	21'12	19'58	21'69	16'37	48'40	29'09	26'54	28'28	29'97	23'77	28'92	20'60	
Congestion of Lungs ... ..	11'44	2'64	11'92	12'05	8'93	40'23	23'52	10'51	10'10	12'52	9'35	9'41	7'49	
Teething... ..	44'88	29'92	37'46	29'72	34'98	33'41	30'95	34'83	22'82	28'63	36'63	33'45	22'47	
Enteritis... ..	20'24	8'80	22'13	38'56	49'94	27'27	30'33	43'68	34'84	7'60	34'68	52'27	63'05	
Accidents ... ..	4'40	12'32	8'51	12'05	12'65	8'86	8'04	12'71	9'09	14'31	13'64	12'89	9'67	
Atrophy and Debility ... ..	130'25	143'45	86'85	110'86	113'88	160'90	141'14	134'33	157'57	154'33	155'51	129'63	84'58	

No. 27.—Numbers of Deaths from each Class of Diseases in Sydney and Suburbs from 1877 to 1887

Causes of Death.				1877.			1878.			1879.			1880.			1881.			1882.		
				Sydney.	Suburbs.	Total.	Sydney.	Suburbs.	Total.	Sydney.	Suburbs.	Total.	Sydney.	Suburbs.	Total.	Sydney.	Suburbs.	Total.	Sydney.	Suburbs.	Total.
I.	Specific Febrile or Zymotic Diseases ..			320	240	560	442	379	821	349	288	637	531	419	950	290	330	620	386	437	823
II.	Parasitic Diseases ...			8	2	10	12	6	18	7	8	15	11	7	18	3	11	14	8	5	13
III.	Dietic Diseases ...			70	35	105	63	33	99	52	25	77	43	33	76	78	34	112	85	45	130
IV.	Constitutional Diseases ...			286	196	482	319	208	527	389	226	615	360	255	615	351	301	652	409	338	747
V.	Developmental Diseases ...			118	77	195	155	74	229	124	108	232	140	122	262	118	121	239	138	173	311
VI.	Local Diseases...			881	599	1,390	992	729	1,721	1,024	760	1,784	1,221	1,022	2,243	982	967	1,949	1,101	1,133	2,234
VII.	Violence ...			107	41	148	134	57	191	122	48	170	149	52	201	187	76	263	150	79	229
VIII.	Ill-defined and not specified ...			210	132	342	204	165	369	199	185	384	285	270	555	237	265	502	248	287	535
				2,000	1,322	3,322	2,321	1,651	3,972	2,266	1,648	3,914	2,740	2,180	4,920	2,246	2,105	4,351	2,525	2,497	5,022

Causes of Death.				1883.			1884.			1885.			1886.			1887.		
				Sydney.	Suburbs.	Total.	Sydney.	Suburbs.	Total.	Sydney.	Suburbs.	Total.	Sydney.	Suburbs.	Total.	Sydney.	Suburbs.	Total.
I.	Specific Febrile or Zymotic Diseases			276	469	745	386	642	1,028	395	691	1,086	292	833	1,125	237	620	857
II.	Parasitic Diseases ...			10	8	18	9	11	20	9	20	29	18	15	33	5	10	15
III.	Dietic Diseases ...			57	29	86	44	35	79	35	55	90	45	50	95	42	41	83
IV.	Constitutional Diseases ...			361	395	756	375	445	820	425	490	915	351	628	979	386	572	958
V.	Developmental Diseases ...			147	186	333	178	219	397	167	244	391	109	251	360	107	218	325
VI.	Local Diseases ...			993	1,161	2,154	1,083	1,506	2,589	1,136	1,750	2,886	1,018	1,742	2,860	891	1,693	2,584
VII.	Violence ...			133	99	232	151	113	264	209	141	350	206	125	331	168	146	314
VIII.	Ill-defined and not specified			256	368	624	309	420	729	260	466	726	185	401	586	106	316	422
				2,233	2,715	4,948	2,535	3,391	5,926	2,636	3,857	6,493	2,224	4,045	6,269	1,942	3,616	5,558



No. 28.—Births and Deaths in the City and Suburbs of Sydney, together with the Mean Temperature in the Shade, Mean Height of Barometer, and Rainfall, during each month of the year 1887.

Month.	Births.			Deaths.			Mean Tempera- ture.	Mean Height of Barometer	Rain.	
	City.	Sub- urbs.	Total Metropolis	City.	Sub- urbs.	Total Metropolis			Depth.	Days.
									Inches	
January ... ..	335	749	1,084	200	415	615	73·2	29·908	6·30	19
February ... ..	294	789	1,083	140	303	443	70·8	·958	4·41	18
March ... ..	334	804	1,138	210	336	546	71·2	30·046	2·87	17
April ... ..	316	769	1,085	147	327	474	65·2	·212	7·12	23
May ... ..	323	796	1,119	187	251	438	56·5	·131	9·20	16
June ... ..	344	878	1,222	145	280	425	53·1	29·955	5·53	15
July ... ..	305	880	1,185	130	215	345	53·9	30·057	3·64	10
August ... ..	368	864	1,232	150	213	363	54·8	·216	7·33	7
September ... ..	336	803	1,139	114	220	334	57·7	29·961	1·57	10
October ... ..	294	776	1,070	146	326	472	63·8	·973	1·36	12
November ... ..	285	804	1,089	188	351	539	64·3	30·036	5·67	17
December ... ..	243	726	969	185	379	564	69·0	·073	5·15	15
Total for the year...	3,777	9,638	13,415	1,942	3,616	5,558	.....	.....	60·15	189

No. 29.—Number of Persons signing Marriage Register with Marks, 1871–87.

Year.	City.			Suburbs.			Total Metropolis.		
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
1871 ... ..	123	216	339	22	25	47	145	241	386
1872 ... ..	83	159	242	18	29	47	101	188	289
1873 ... ..	106	164	270	22	31	53	128	195	323
1874 ... ..	79	146	225	21	25	46	100	171	271
1875 ... ..	106	157	263	9	19	28	115	176	291
1876 ... ..	72	121	193	12	21	33	84	142	226
1877 ... ..	77	146	223	29	36	65	106	182	288
1878 ... ..	84	119	203	26	32	58	110	151	261
1879 ... ..	83	99	182	34	31	65	117	130	247
1880 ... ..	83	128	211	27	31	58	110	159	269
1881 ... ..	57	141	198	32	40	72	89	181	270
1882 ... ..	101	140	241	31	46	77	132	186	318
1883 ... ..	81	122	203	45	54	99	126	176	302
1884 ... ..	59	84	143	41	49	90	100	133	233
1885 ... ..	66	93	159	28	52	80	94	145	239
1886 ... ..	56	101	187	27	34	61	83	135	218
1887 ... ..	40	70	110	10	29	39	50	99	149

No. 30.—Percentage of Persons Married signing Register with Marks in the City and Suburbs of Sydney, 1871–87.

Year.		City.	Suburbs.	Total Metropolis.	Year.		City.	Suburbs.	Total Metropolis.
1871	...	13'94	10'98	13'50	1880	...	6'58	3'97	5'76
1872	...	11'47	8'22	10'77	1881	...	5'41	4'24	5'05
1873	...	10'73	8'38	10'26	1882	...	6'17	3'47	5'19
1874	...	10'12	7'93	8'81	1883	...	5'00	4'00	4'60
1875	...	10'67	3'28	8'77	1884	...	3'60	3'12	3'40
1876	...	7'63	3'56	6'54	1885	...	3'76	2'03	3'34
1877	...	8'30	5'85	7'58	1886	...	3'63	1'90	2'89
1878	...	7'16	4'59	6'36	1887	...	2'85	1'23	2'12
1879	...	6'42	4'34	5'70	Mean	...	7'26	4'77	6'51

No. 31.—Number of Marriages and Marriage Rate in the Metropolitan District, 1871–87.

Year.		Number of Marriages.	Proportion of Persons Marrying per 1000.	Marriage Rate per 1,000.	Year.		Number of Marriages.	Proportion of Persons Marrying per 1,000.	Marriage Rate per 1,000.
1871	...	1,430	20'78	10'39	1880	...	2,333	21'78	10'89
1872	...	1,341	18'72	9'36	1881	...	2,675	23'50	11'75
1873	...	1,574	21'18	10'59	1882	...	3,062	25'34	12'67
1874	...	1,537	19'86	9'93	1883	...	3,282	25'52	12'76
1875	...	1,658	20'58	10'29	1884	...	3,424	24'54	12'27
1876	...	1,727	20'64	10'32	1885	...	3,579	23'74	11'87
1877	...	1,899	21'52	10'76	1886	...	3,769	23'32	11'66
1878	...	2,055	21'86	10'93	1887	...	3,513	20'62	10'31
1879	...	2,166	21'60	10'80					



No. 32.—Marriages by Clergy of each Denomination, and Number of Persons signing Register with Marks, for the year 1887.

Denominations.	City.				Suburbs.				Metropolis.			
	Marriages.	Marks.			Marriages.	Marks.			Marriages.	Marks.		
		M.	F.	Total.		M.	F.	Total.		M.	F.	Total.
Church of England ... ..	933	13	30	43	529	4	7	11	1,462	17	37	54
Roman Catholic ... ..	344	14	20	34	165	3	7	10	509	17	27	44
Presbyterian ... ..	97	1	1	2	252	1	4	5	349	2	5	7
Congregational ... ..	317	8	12	20	170	...	2	2	487	8	14	22
Wesleyan ... ..	66	1	1	2	172	...	1	1	238	1	2	3
Primitive Methodist ... ..	19	...	...	...	51	...	...	...	70	...	...	...
Baptist ... ..	36	...	...	...	21	...	...	...	57	...	...	...
Hebrew ... ..	20	2	2	4	6	...	...	...	26	2	2	4
German Lutheran ... ..	9	...	...	...	2	...	...	...	11	...	...	...
Unitarian ... ..	1	...	...	...	...	...	...	...	1	...	...	...
Church of Christ ... ..	1	...	...	...	11	...	...	...	12	...	...	...
Society of Friends ... ..	1	...	...	...	...	...	...	...	1	...	...	...
New Church ... ..	...	...	...	...	1	...	...	...	1	...	...	...
Salvation Army ... ..	2	...	...	...	3	...	...	...	5	...	...	...
Franco-Australian Mission ... ..	...	...	...	...	1	...	...	...	1	...	...	...
Registrars' Offices ... ..	85	1	4	5	198	2	8	10	283	3	12	15
	1,931	40	70	110	1,582	10	29	39	3,513	50	99	149

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